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SECURITY INFORMATION

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German Democratic Republic

FDD Abstract of [REDACTED]

PREFABRICATED BRIDGES FOR USSR

(1p; German; 1951)

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The document is a carbon copy of a half-page typewritten report, as follows:

Between 1949 and the middle of December 1951 twenty-one prefabricated bridges of 37 and 51 quality steel were delivered. Since mid 1951, efforts have been made to fabricate these bridges of light metals. Duralumin-type sections are furnished by the Bitterfeld Electrochemical Combine via the Hettstedt Rolling Mill. The Soviets specified that a bridge was to be built which, with the same load capacity and span width, should be 50 percent lighter in weight. The bridge must also be easy to disassemble. The specially created engineers' collective ran into great difficulties because of the lack of data on such things as the tensile strength of the sections available or the types of [REDACTED] connections. A norm committee set up by this collective obtained data from Dueren/ Rheinland and established norms which in respect to stress values are about 15 percent higher than those of the Federal Republic.

Work on the new bridges is in progress; Soviet control officers keep a constant watch on operations. The target date, which was set up in July 1951, will not be met. Since the usual stoppages and delays in procuring material have occurred, it will not be possible at this time to set any target date. Frequently, too, material must be rejected since it does not meet the norm specifications. Galvanized steel screws have been used as connectors; more recently a special duralumin-type light metal rivet has been used which is hammered without being softened. The drilled gusset plates are atomic-welded to a supporting member which is itself a part of a section.

The above is a complete exploitation of this document. 7

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